

Special Issue

Therapeutic Molecular Targets in Tumor Microenvironment

Message from the Guest Editor

The complexity and dynamic nature of the tumor microenvironment (TME) still remains a challenge for the pre- and clinical studies of tumors. TME components such as cancer-associated fibroblasts (CAFs), tumor-associated macrophages (TAMs) or tumor-infiltrating lymphocytes (TILs) are promising therapeutic targets associated with tumor regression and patient prognosis. They are mostly involved in cancer promotion and progression controlling various processes, i.e., cancer cell proliferation, angiogenesis, metastasis formation or epithelial to mesenchymal transition (EMT) phenomenon. TME promotes tumorigenesis by secreting cytokines and initiating extracellular matrix (ECM) remodeling. ECM proteins such as fibronectin, tenascin-C, and periostin can also play an important role in the regulation of cancer cell biology, metastatic potential, and patient outcome. Recent cancer immunotherapies are focused equally on tumor cells and on key components of the TME. In this Special Issue, we will discuss the biology and composition of TME, its prognostic and predictive value, as well as potential therapeutic strategies for cellular and molecular TME targets.

Guest Editor

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